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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/853,617	05/14/2001	Jerome B. Zeldis	9516-022	7262
20582	7590	06/14/2007		
JONES DAY 222 East 41st Street New York, NY 10017-6702			EXAMINER LEWIS, PATRICK T	
			ART UNIT 1623	PAPER NUMBER
			MAIL DATE 06/14/2007	DELIVERY MODE PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.

09/853,617

Applicant(s)

ZELDIS ET AL.

Examiner

Patrick T. Lewis

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 08 March 2007.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-4, 8-11, 61 and 62 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-4, 8-11 and 61-62 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date _____
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: _____

DETAILED ACTION

Request for Continued Examination

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on March 8, 2007 has been entered.

Election/Restrictions

2. Applicant's election with traverse of Group I in the reply filed on February 28, 2003 is acknowledged. The requirement was made FINAL in the Office Action dated May 19, 2003.

Applicant's Response Dated March 8, 2007

3. Claims 1-4, 8-11 and 61-62 are pending. An action on the merits of claims 1-4, 8-11 and 61-62 is contained herein below.

4. The rejection of claims 1-11 and 61-62 under 35 U.S.C. 103(a) as being unpatentable over Marx et al. Proc. Am. Soc. Clin. Oncology (1997), Vol. 18, page 454a (Marx); Pitot et al. Journal of Clinical Oncology (1997), Vol. 15, pages 2910-2919

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(Pitot); and Priel et al. US 5,622,959 (Priel) in combination has been rendered moot in view of applicant's amendment filed on March 8, 2007.

Claim Rejections - 35 USC § 103

5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

6. The factual inquiries set forth in *Graham v. John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

1. Determining the scope and contents of the prior art.
2. Ascertaining the differences between the prior art and the claims at issue.
3. Resolving the level of ordinary skill in the pertinent art.
4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

7. Claims 1-4, 8-11 and 61-62 are rejected under 35 U.S.C. 103(a) as being unpatentable over Marx et al. Proc. Am. Soc. Clin. Oncology (1997), Vol. 18, No. 1751, page 454a (Marx) and Houghton et al. Cancer Chemother Pharmacol (1995), Vol. 36, pages 393-403 (Houghton) in combination.

Claims 1-4, 8-11 and 61-62 are drawn to a method of treating primary or metastatic cancer comprising administering a therapeutically elective amount of topotecan, or a pharmaceutically acceptable prodrug, salt, solvate, hydrate, or clathrate

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thereof, and a therapeutically effective amount of thalidomide, or a pharmaceutically acceptable salt or solvate thereof.

Marx teaches thalidomide as an antiangiogenic agent in the treatment of advanced cancer (1751). The cancers that are treated include brain, melanoma, breast, colon, mesothelioma and renal cell carcinoma. Thalidomide was administered as an oral daily dose of 100 to 500 mg/day.

Marx differs from the instantly claimed invention in that Marx does not teach the co-administration of topotecan. However, the deficiencies of Marx would have been obvious to one of ordinary skill in the art at the time of the invention when viewed in combination with the teachings Houghton.

Houghton teaches the efficacy of protracted schedules of therapy of topotecan and irinotecan against a panel of 21 human tumor xenografts derived from adult and pediatric malignancies (Abstract). Tumors included eight colon adenocarcinomas. Topotecan was administered by oral gavage 5 days per week for 12 consecutive weeks.

It would have been obvious to one of ordinary skill in the art at the time of the invention to combine thalidomide and topotecan for the treatment of colon cancer. As supported by *Ex parte Quadrantil*, 25 USPQ2d 1071 (Bd. Pat. Appl. & Inter. 1992), the use of materials in combination, each of which is known to function for intended purpose, is *prima facie* obvious. In the absence of some proof of a secondary nature or of some specific limitations which would tip the scale of patentability in the favor of the instantly claimed invention, it would have been obvious to one of ordinary skill in this art at the time of the invention to co-administer two components (thalidomide and

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topotecan), each of which is recognized as having anti-cancer activity as applicant has done with the above cited references before them. Topotecan and thalidomide are well recognized in the art for the treatment of cancer individually, and to combine these two compounds or prodrugs, salts or solvates thereof to obtain the same result is indeed *prima facie* obvious.

Conclusion

8. Claims 1-4, 8-11 and 61-62 are pending. Claims 1-4, 8-11 and 61-62 are rejected. No claims are allowed.

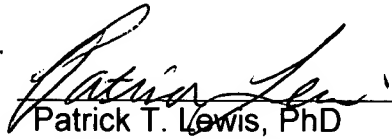
Contacts

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Patrick T. Lewis whose telephone number is 571-272-0655. The examiner can normally be reached on Monday - Friday 10 am to 3 pm (Maxi Flex).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Shaojia A. Jiang can be reached on 571-272-0627. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).


Patrick T. Lewis, PhD
Primary Examiner
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